



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,723	07/15/2003	Bobby Gene Ward	17903	7125-
75	590 04/21/2004		EXAMINER	
Joseph A. Tessari, Esquire			LEON, EDWIN A	
Tyco Technolog	gy Resources			
Suite 140			ART UNIT	PAPER NUMBER
4550 New Linden Hill Road			2833	
Wilmington, D	E 19808-2952		DATE MAILED: 04/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	-		
	Application No.	Applicant(s) WARD ET AL.	
_	10/619,723		
Office Action Summary	Examiner	Art Unit	
	Edwin A. León	2833	Bu
The MAILING DATE of this communication a	appears on the cover sheet wi	ith the correspondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a r reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become A6	reply be timely filed ty (30) days will be considered timel ITHS from the mailing date of this or 3ANDONED (35 U.S.C.§ 133).	y. ommunication.
Status			
1) Responsive to communication(s) filed on	·		
, ————————————————————————————————————	his action is non-final.		
3) Since this application is in condition for allow			e merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application	ion.		
4a) Of the above claim(s) is/are without			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,5,6,10 and 12</u> is/are rejected.			
7) Claim(s) <u>2-4,7-9,11 and 13</u> is/are objected	to.		
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) = 3	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form P	ГО-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum	ents have been received.		-
2. Certified copies of the priority docum			
3. Copies of the certified copies of the p		received in this National	Stage
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	<i>,</i> — –	Summary (PTO-413) (s)/Mail Date	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB		Informal Patent Application (PT	O-152)
Paper No(s)/Mail Date <u>112003</u> .	6) 🔲 Other:	·	

Application/Control Number: 10/619,723

Art Unit: 2833

DETAILED ACTION

Claim Objections

Claim 9 is objected as being in improper form because it depends on itself.
 Accordingly, the claim has not been further treated on the merits.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 3. Claims 1, 5-6, 10 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Taguchi et al. (U.S. Patent No. 6,383,020). With regard to Claim 1, Taguchi et al. discloses an apparatus for connecting electrical components comprising; a plug means (2) having a generally box-like configuration; a plug terminal position assurance means (7) having a generally box-like configuration, the plug terminal position assurance means (7) being structured to fit at least partially within the plug

Application/Control Number: 10/619,723

Art Unit: 2833

means (2); a cap means (5) having a generally box-like configuration; a cap terminal position assurance means (6) having a generally box-like configuration, the cap terminal position assurance means (6) being structured to fit at least partially within the cap means (5); wherein, when the plug means (2) is mated to the cap means (5), the plug means (2), the cap means (5), the plug terminal position assurance means (7) and the cap terminal position assurance means (6) interlock to form a box-in-box-in-box construction. See Figs. 1-8.

With regard to Claim 5, Taguchi et al. discloses the plug terminal position assurance means (7) comprising cutaways (34, end part of 19), which mate with at least one corresponding key (35) and at least one corresponding rail (26) on the cap means (5). See Figs. 1-8.

With regard to Claim 6, Taguchi et al. discloses each of the plug means (2) and cap means (5) comprising at least one cavity (8, 28) adapted to receive and retain therein an electrical terminal (Column 3, Lines 59-67 and Column 4, Lines 32-40). See Figs. 1-8.

With regard to Claim 10, Taguchi et al. discloses the plug means (2) further comprising a detent (72), which cooperates with a slot (59) on the plug terminal position assurance means (7) to retain the plug terminal position assurance means (7) in position. See Figs. 1-8.

With regard to Claim 12, Taguchi et al. discloses the cap means (5) further comprising a detent (35), which cooperates with a slot (34) on the cap terminal position

Application/Control Number: 10/619,723

Art Unit: 2833

assurance means (6) to retain the cap terminal position assurance means (6) in position. See Figs. 1-8.

Allowable Subject Matter

4. Claims 2-4, 7-8, 11 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The references fail to teach, disclose, or suggest, either alone or in combination the cap terminal position assurance means comprising cutaways that mate with at least one corresponding key and at least one corresponding rail on the cap means and each cavity comprising a deflectable locking finger and a rib which cooperate to retain the electrical terminal in the cavity, the detent comprising a two-stage detent and in combination with the rest of the limitations of the base and intermediate claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ward et al. (U.S. Patent No. 6,183,299), Berg et al. (U.S. Patent No. 5,928,038), Wolla et al. (U.S. Patent No. 5,964,621) and Marpoe, jr. et al. (U.S. Patent No. 6,514,098) disclose apparatuses having plug and cap means, box-like configurations and terminal positions assurance means.

Application/Control Number: 10/619,723 Page 5

Art Unit: 2833

6. Any-inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800, extension 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Why h- 2

Edwin A. Leon AU 2833

EAL April 16, 2004